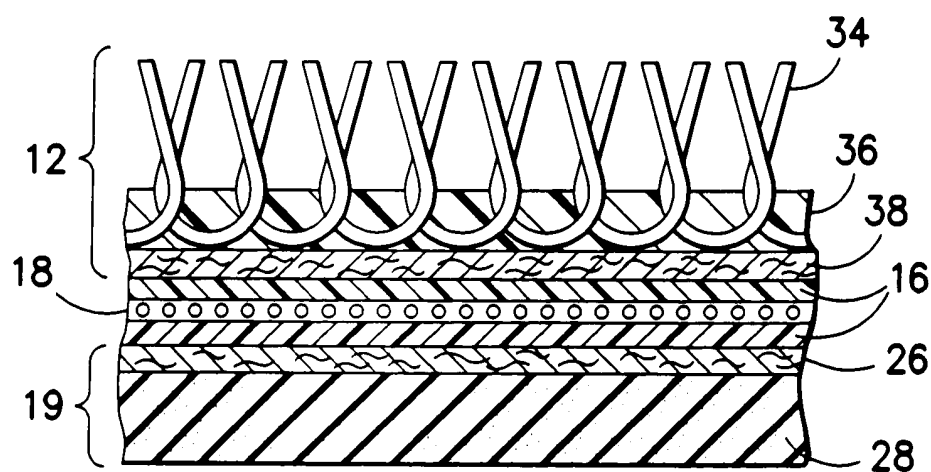


*FIG. -1A-*



*FIG. -1B-*

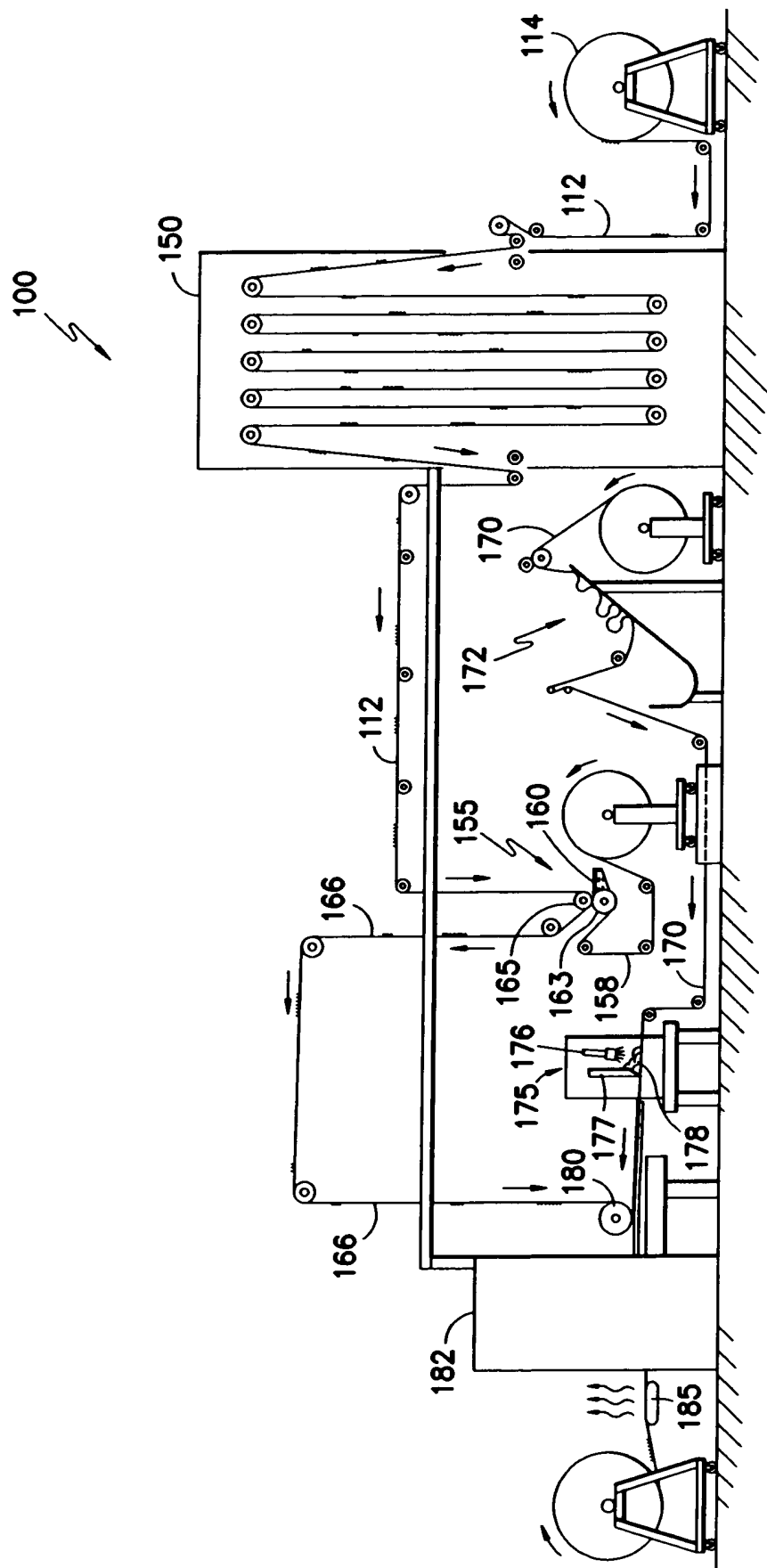


FIG. -2-

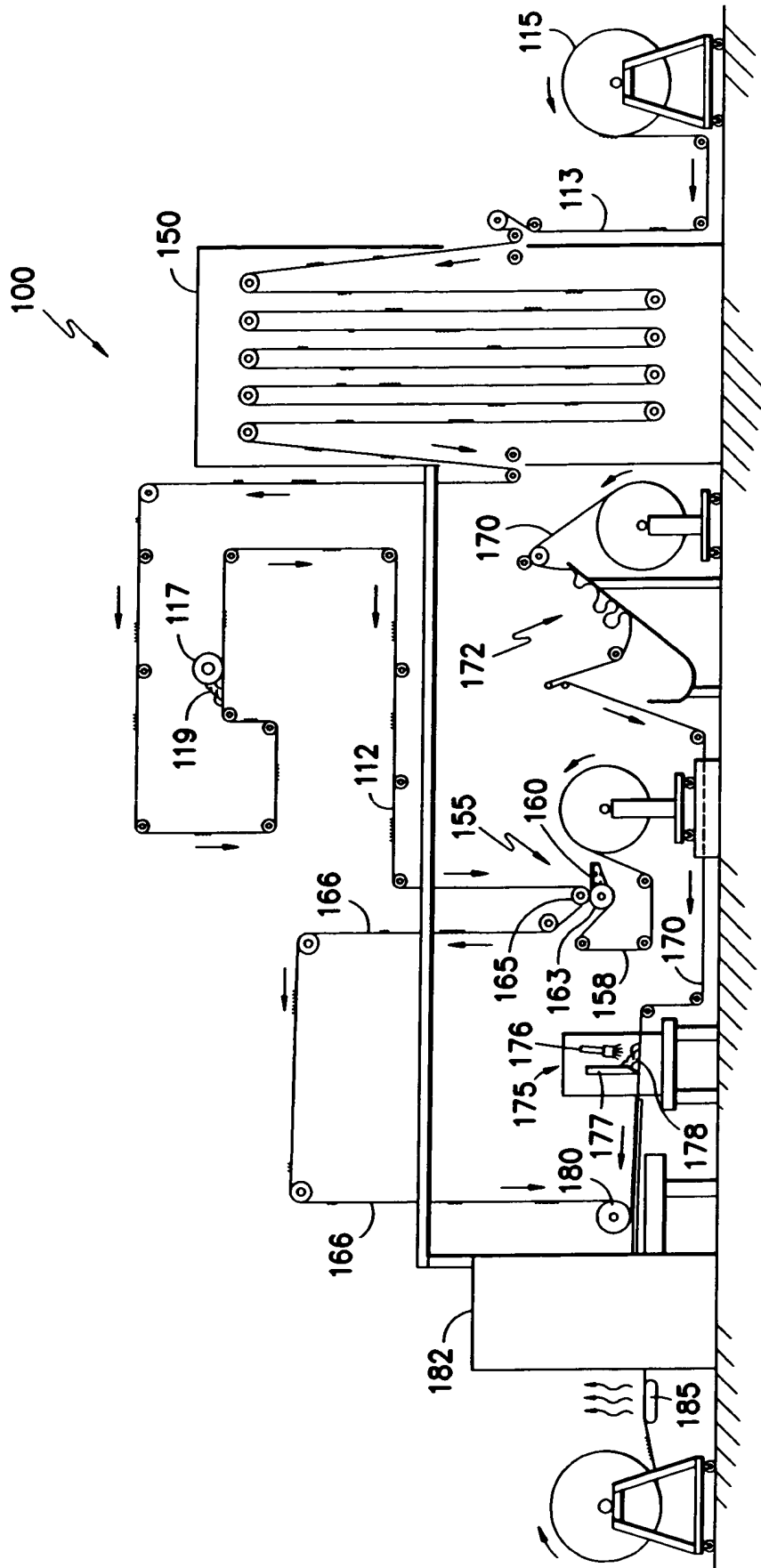
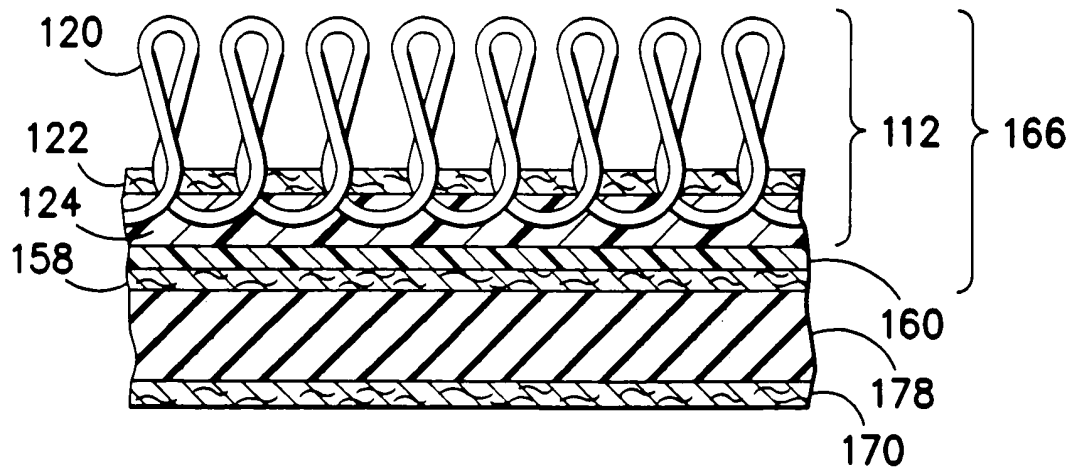
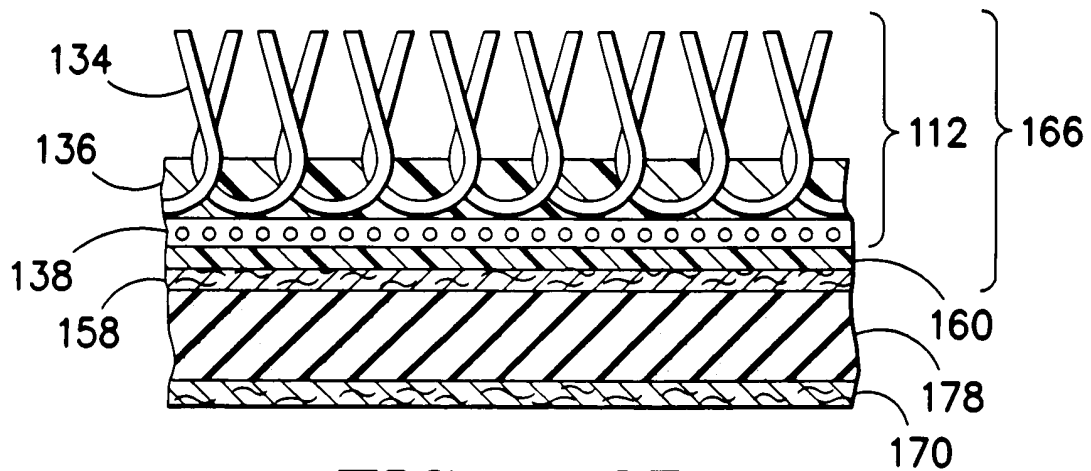


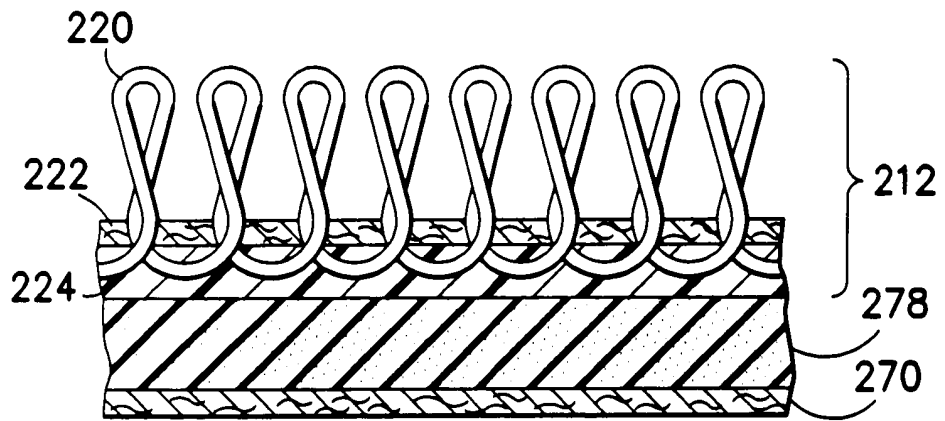
FIG. -2A-



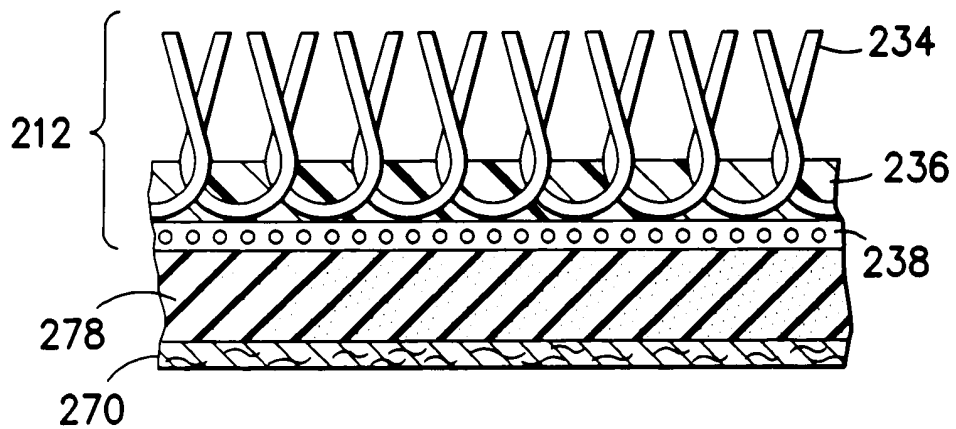
*FIG. -3A-*



*FIG. -3B-*



*FIG. -4A-*



*FIG. -4B-*

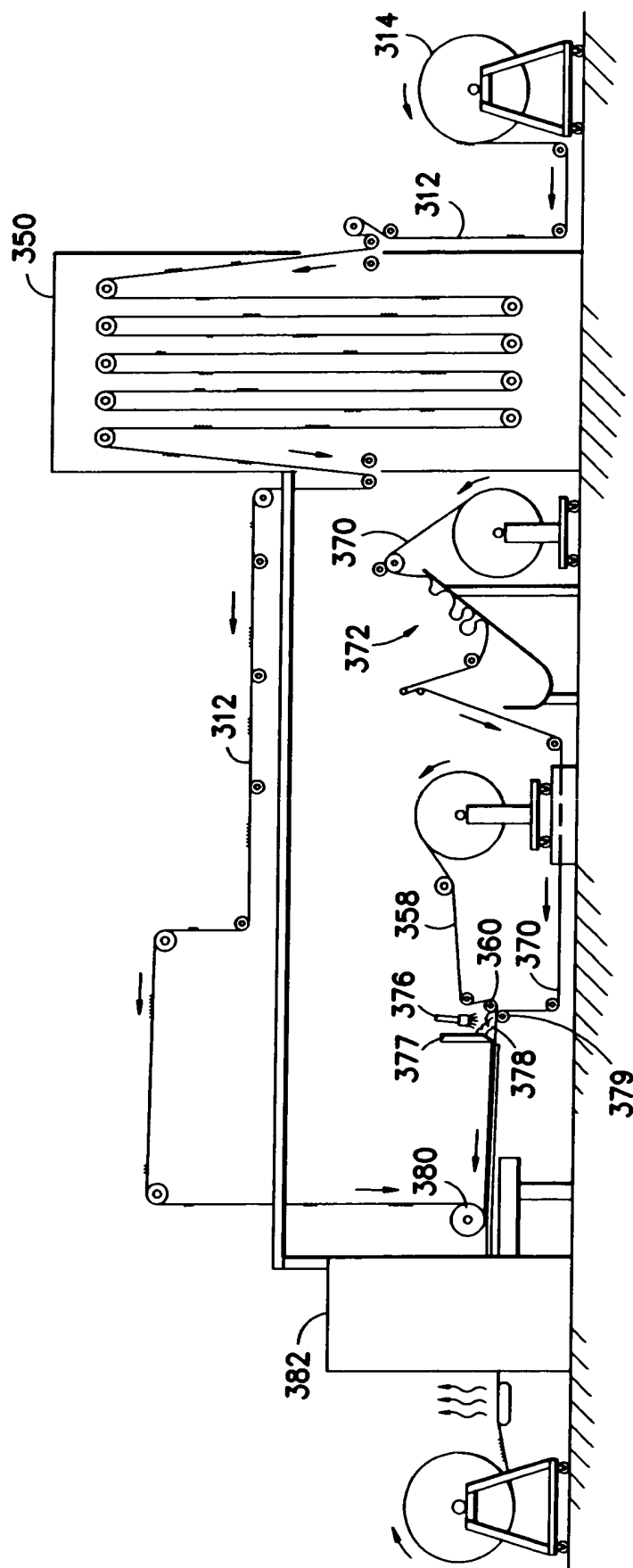


FIG. -5-

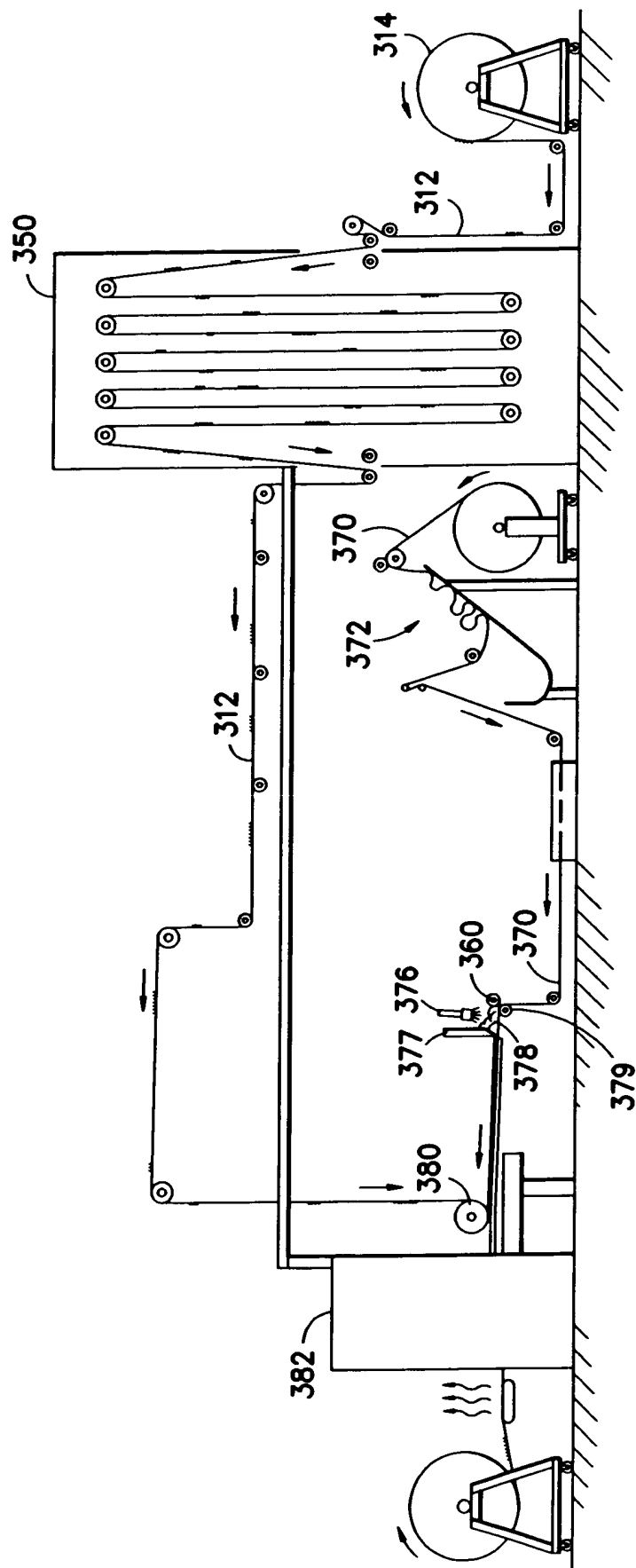
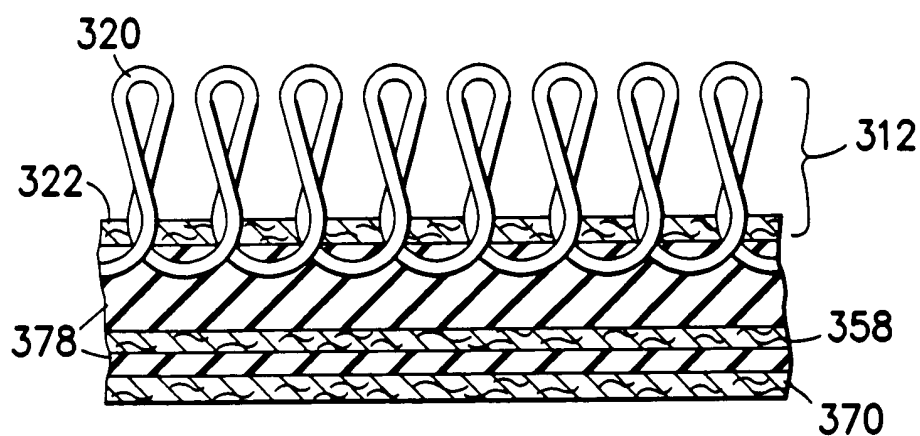
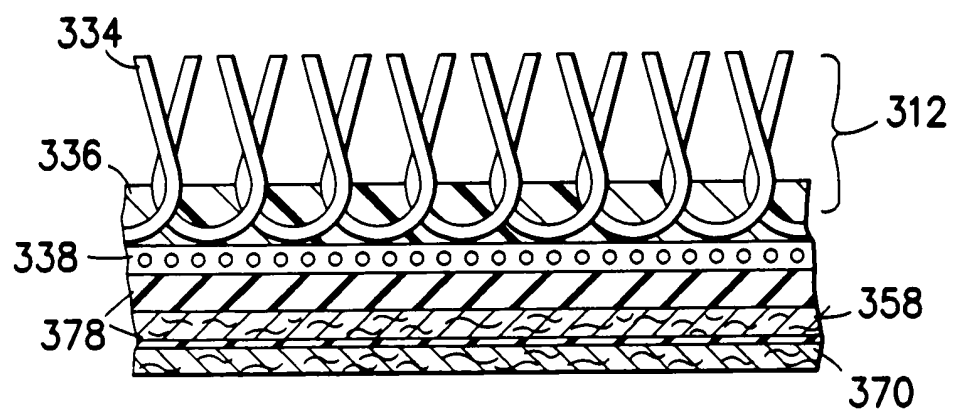


FIG. -5A-



*FIG. -6A-*



*FIG. -6B-*







FIG. 8A

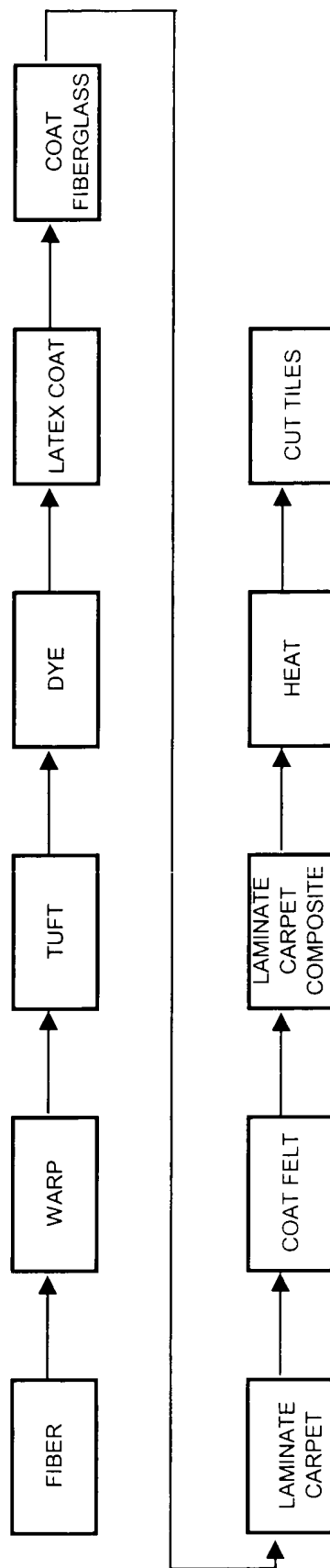


FIG. 8B

FIBER	fiber	filament	denier	ply	twist	air entangle	heatset
upper setting	nylon T-6.6 or T6	bcf	1700	3	4 x 4	yes	yes
most likely setting	nylon T-6.6 or T6	bcf	1360	1	none	none	none
lower setting	polypropylene	staple	1120	1	none	none	none

WARP	ends
upper setting	1800
most likely setting	1512
lower setting	576

TUFT	type	creel	gauge	pile height	stitches/in	primary backing	primary fiber	tufted weight
upper setting	cut	beam	5/64"	16/64"	18	non-woven	polyester	15 oz/yd <sup>2</sup>
most likely setting	loop	beam	1/10"	10/64 & 13/64	14.39	woven	polypropylene	12.34 oz/yd <sup>2</sup>
lower setting	loop	creel	1/8"	8/64"	10	woven	polypropylene	8 oz/yd <sup>2</sup>

DYE	scour	vacuum	wet out	design	steam	wash	fluorochem	dry
upper setting	H <sub>2</sub> O 180F	12 in Hg	100% wpu	dye injection	210F	H <sub>2</sub> O	0.16 oz/yd <sup>2</sup>	300F
most likely setting	H <sub>2</sub> O 155F	10 in Hg	80% wpu	dye injection	210F	H <sub>2</sub> O	0.08 oz/yd <sup>2</sup>	270F
lower setting	H <sub>2</sub> O 120F	6 in Hg	50% wpu	tufted design	210F	H <sub>2</sub> O	0.04 oz/yd <sup>2</sup>	210F

COAT	latex type	latex add on	latex oven	hotmelt adhesive	fiberglass	polyurethane add on	polyurethane thickness	polyurethane density	felt construction	felt fiber	cure
upper setting	SBR	20 oz/yd <sup>2</sup>	320F	50 oz/yd <sup>2</sup>	4 oz/yd <sup>2</sup>	30 oz/yd <sup>2</sup>	0.12 inches	18 lb/ft <sup>3</sup>	non-woven	polyester	360F
most likely setting	SBR	16 oz/yd <sup>2</sup>	300F	42 oz/yd <sup>2</sup>	2 oz/yd <sup>2</sup>	20 oz/yd <sup>2</sup>	0.06 inches	16 lb/ft <sup>3</sup>	non-woven	pe & pp	330F
lower setting	EVA	12 oz/yd <sup>2</sup>	280F	36 oz/yd <sup>2</sup>	1.5 oz/yd <sup>2</sup>	10 oz/yd <sup>2</sup>	0.04 inches	14 lb/ft <sup>3</sup>	woven	polypropylene	300F

Fig. 9

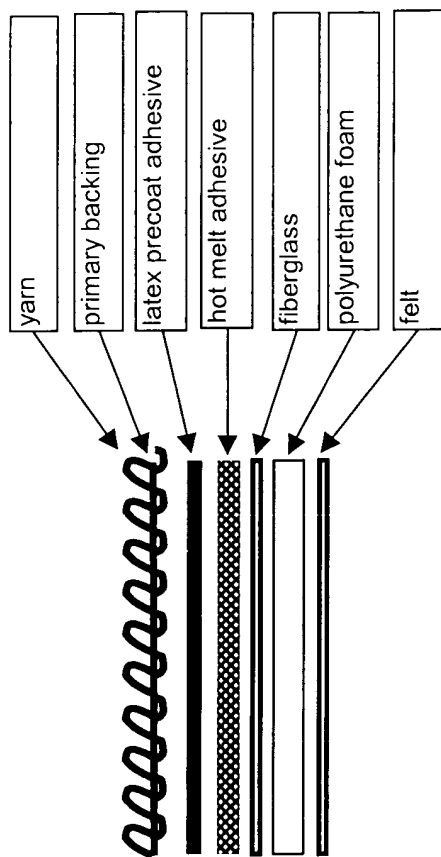


FIG. 10A

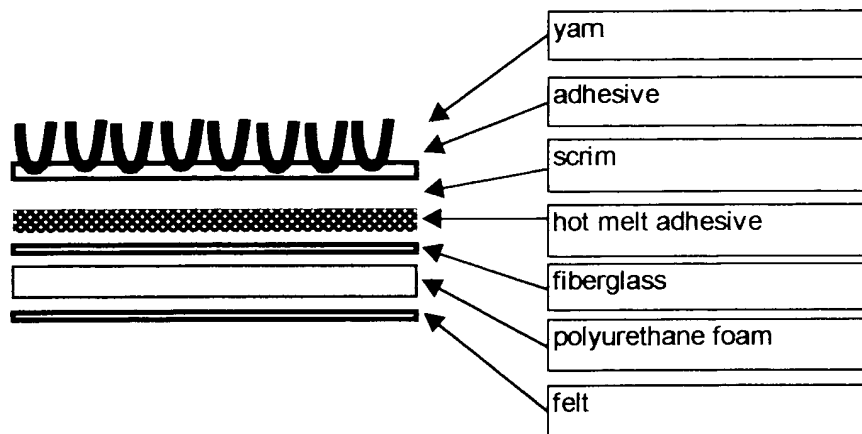


FIG. 10B

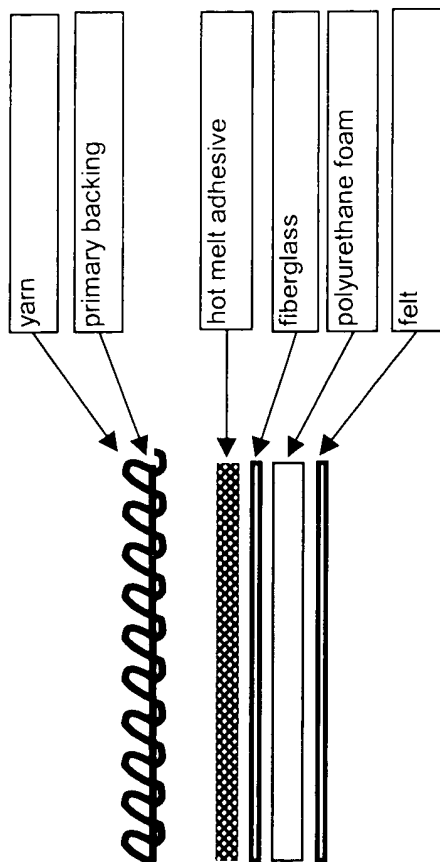


FIG. 11

FIG. 12 is a cross-sectional view of the device.

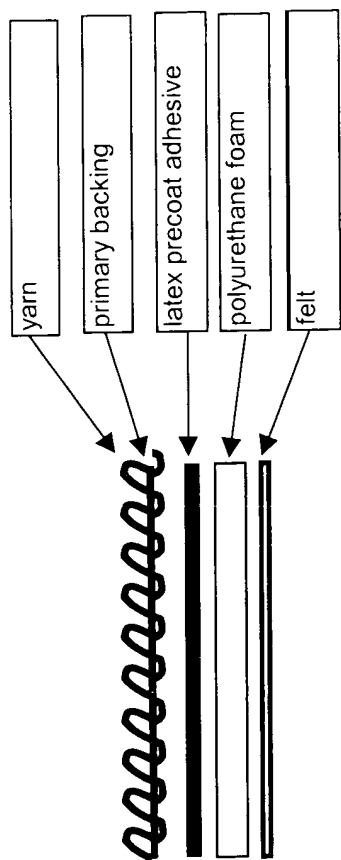


FIG. 12

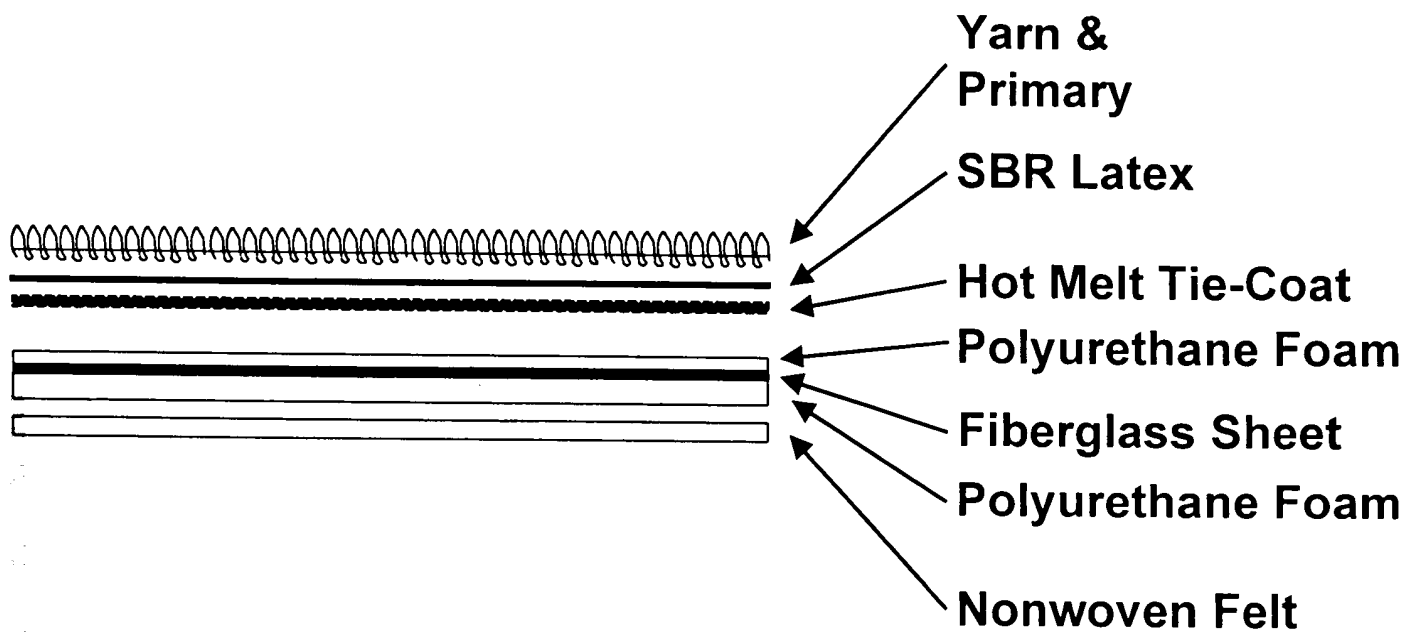


Fig. 13



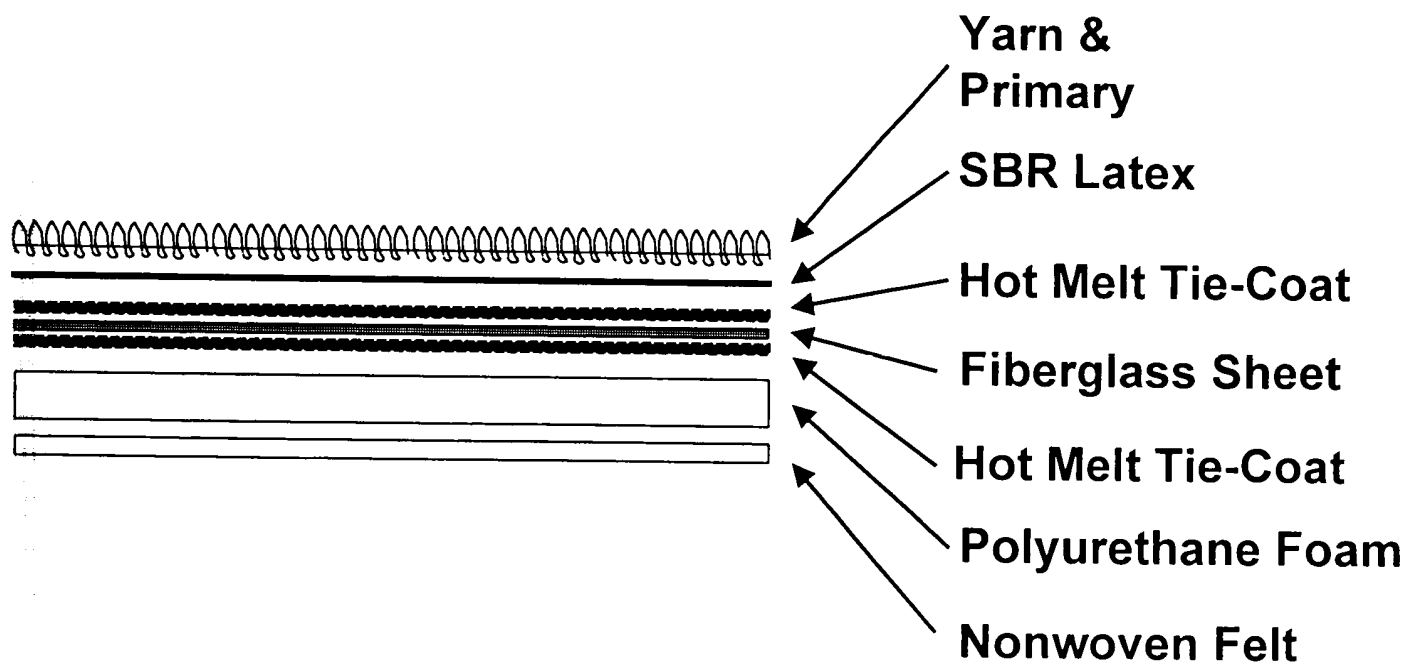


Fig. 14

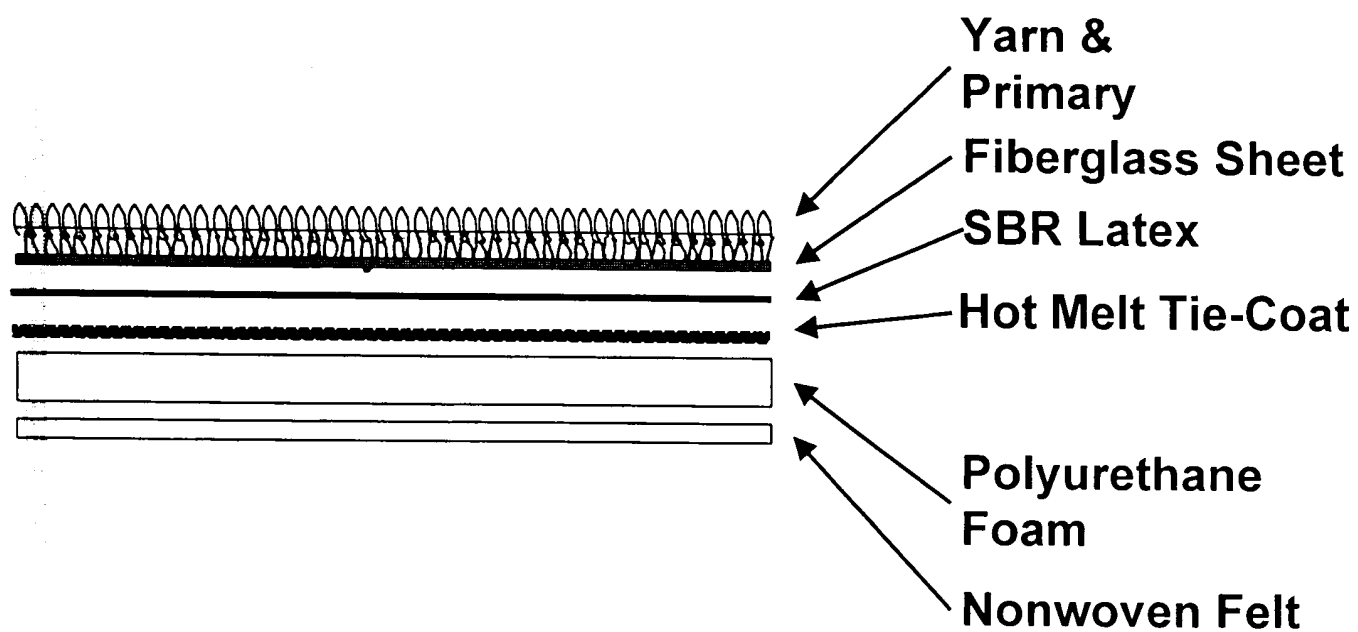


Fig. 15

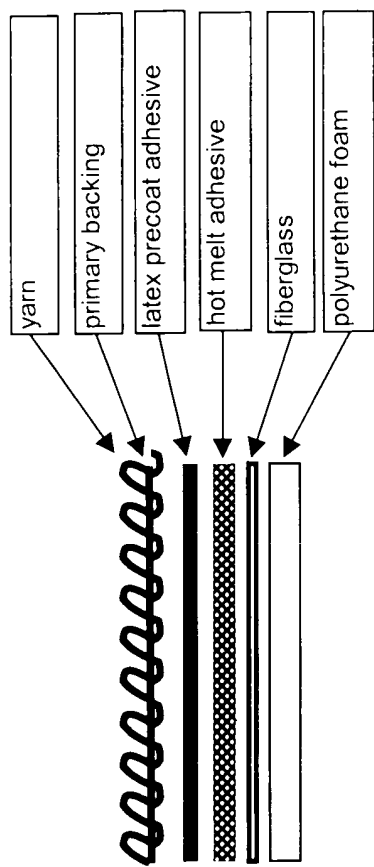


FIG. 16

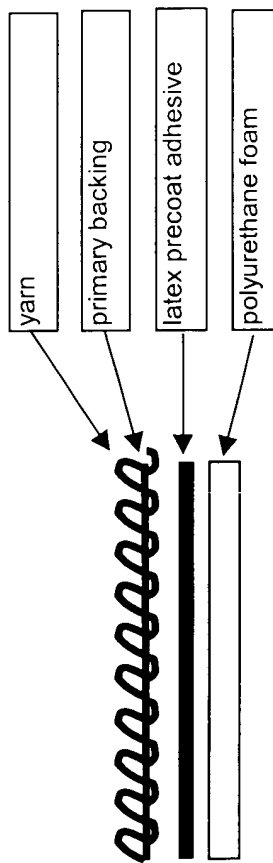


FIG. 17

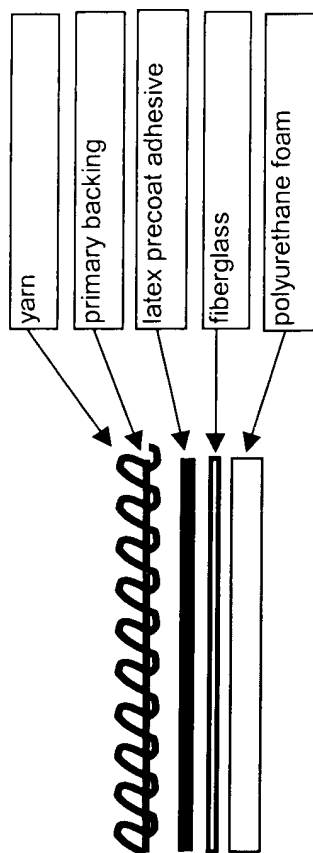


FIG. 18

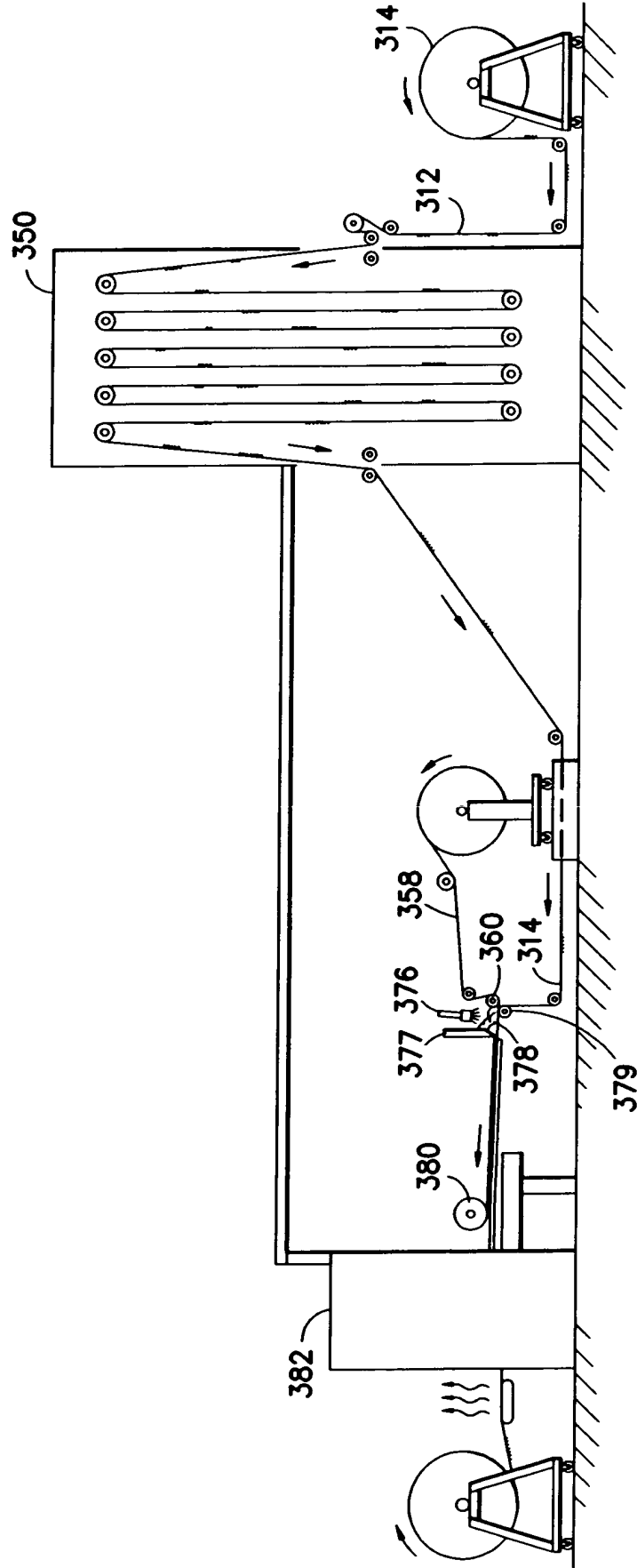
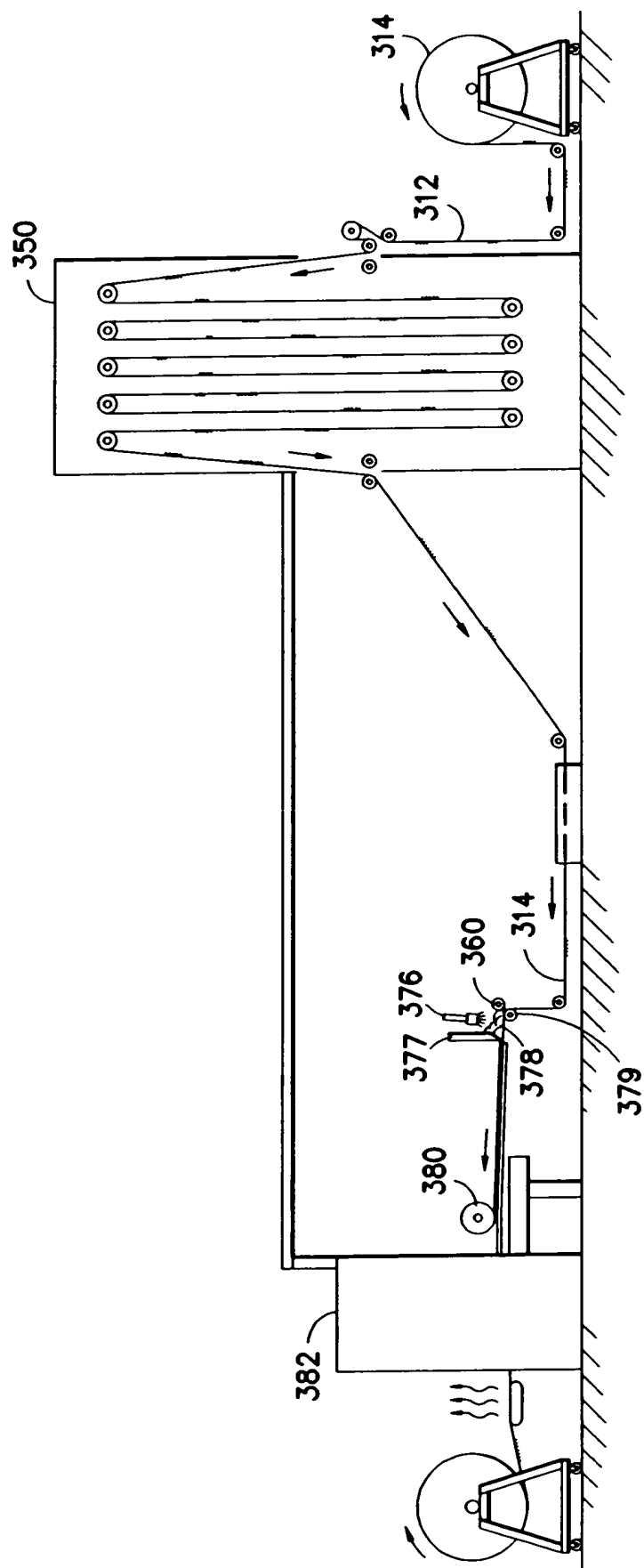


FIG. 19



**FIG. 19A**